

results of BLAST CD

BLASTP 2.2.6 [Apr-09-2003]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1054223627-02841-5673

Query=

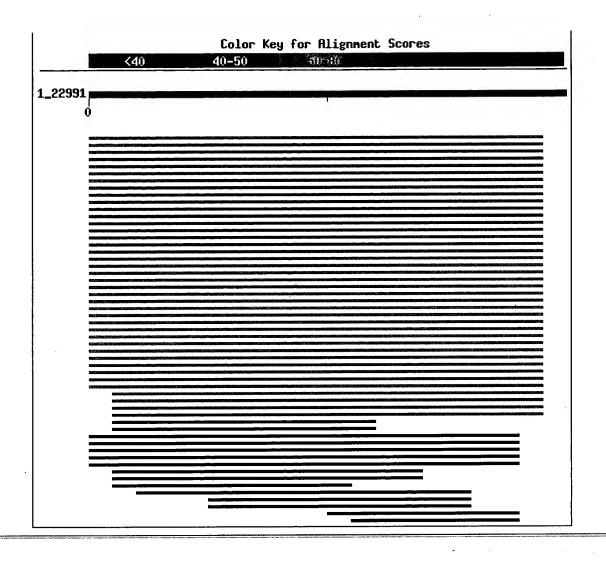
(20 letters)

If you have any problems or questions with the results of this search please refer to the **BLAST FAQs**

Taxonomy reports

Distribution of 125 Blast Hits on the Query Sequence

Mouse-over to show defline and scores. Click to show alignments



Sequences producing significant alignments:	Score (bits)	E Value
gi 7669518 ref NP 039253.1 neuregulin 1 isoform SMDF; here	<u>73</u>	5e-13
gi 11066084 gb AAG28450.1 AF194996_1 glial growth factor GG	<u>73</u>	5e-13
gi 14043365 gb AAH07675.1 AAH07675 neuregulin 1 [Homo sapie	_73	5e-13
gi 7669524 ref NP_039256.1 neuregulin 1 isoform GGF2; here	_73	5e-13 L
gi 22004078 tpg DAA00047.1 TPA: neuregulin 1 isoform GGF2 gi 26339516 dbj BAC33429.1 unnamed protein product [Mus mu		5e-13 L 5e-13
gi 11066086 gb AAG28451.1 AF194997 1 glial growth factor GG	_73	5e-13
gi 7669514 ref NP 039251.1 neuregulin 1 isoform HRG-beta2;	_73	5e-13
gi 408407 gb AAA19953.1 neu differentiation factor gi 29373075 gb AAO72524.1 neuregulin 1-beta 1; NRG1-beta1	<u>73</u> <u>73</u>	5e-13 L 5e-13
<u>gi 11066048 gb AAG28432.1 AF194443 1</u> SMDF neuregulin beta 3 <u>gi 482989 pir B43273</u> heregulin, splice form beta 1 - human	73 73	5e-13 L 5e-13
gi 2143869 pir A56210 neu differentiation factor - rat (fr	73	5e-13
gi 11066038 gb AAG28427.1 AF194438_1 SMDF neuregulin beta 1	73	5e-13 L
gi 11066050 gb AAG28433.1 AF194993_1 glial growth factor be gi 2406644 gb AAC51756.1 gamma-heregulin [Homo sapiens]	73 73	5e-13 L 5e-13
gi 11066082 gb AAG28449.1 AF194995 1 glial growth factor GG gi 4929183 gb AAD33893.1 AF142632 1 cysteine-rich domain ne		5e-13 L 5e-13

gi 27806513 ref NP_776553.1 neuregulin 1 [Bos taurus] >gi	73	5e-13
gi 9297000 sp P43322 NRG1 RAT Pro-neuregulin-1 precursor (P	<u>73</u>	5e-13 L
gi 7669516 ref NP 039252.1 neuregulin 1 isoform HRG-beta3; gi 483138 pir C43273 heregulin precursor, splice form beta	73 73	5e-13 L 5e-13
gi 408391 gb AAA19945.1 neu differentiation factor	<u>73</u>	5e-13
gi 22004072 tpg DAA00041.1 TPA: neuregulin 1 isoform HRG-b gi 349729 gb AAA72403.1 heregulin beta-1	73 73	5e-13 L 5e-13
gi 7669522 ref NP 039255.1 neuregulin 1 isoform GGF; hereg gi 30584177 gb AAP36337.1 Homo sapiens neuregulin 1 [synth	$\frac{73}{73}$	5e-13 L 5e-13
gi 408409 gb AAA19954.1 neu differentiation factor	73	5e-13
gi 11066044 gb AAG28430.1 AF194441 1 SMDF neuregulin beta 2	73	5e-13
gi 7459696 pir I38408 neu differentiation factor - human (<u>73</u>	5e-13
gi 13928798 ref NP 113776.1 neuregulin 1 [Rattus norvegicu	<u>73</u>	5e-13 L
gi 28483768 ref XP 134101.2 RIKEN cDNA D230005F13 gene [Mu	<u>73</u>	5e-13
gi 7669512 ref NP 039250.1 neuregulin 1 isoform HRG-beta1;	_73	5e-13
gi 408393 gb AAA19946.1 neu differentiation factor	_73	5e-13
gi 11066046 gb AAG28431.1 AF194442_1 SMDF neuregulin beta 4	_73	5e-13
gi 22004073 tpg DAA00042.1 TPA: neuregulin 1 isoform HRG-b	$\frac{73}{70}$	5e-13 L
gi 2961137 gb AAC05671.1 neuregulin beta-2a [Gallus gallus] gi 9297019 sp Q05199 NRG1 CHICK Pro-neuregulin-1 precursor	70	4e-12
gi 2961139 gb AAC05672.1 neuregulin beta-2b [Gallus gallus]	70	4e-12
gi 2961135 gb AAC05670.1 neuregulin beta-1a [Gallus gallus]	<u>70</u> .	4e-12 0.036
gi 2589172 gb AAB83956.1 mucin Muc3 [Rattus norvegicus]	37	
gi 111979 pir A39321 mucin - rat (fragment) > gi 205546 gb gi 9789757 sp P56974 NRG2 MOUSE Pro-neuregulin-2 precursor	36	0.065
gi 7669532 ref NP 053586.1 neuregulin 2 isoform 4; neural	<u>36</u>	0.065 L
gi 7669528 ref NP 053584.1 neuregulin 2 isoform 2; neural gi 7459670 pir PC4415 ErbB kinase activator beta, brain an	<u>36</u> <u>36</u>	0.065
gi 29373063 gb AA072523.1 neuregulin 2-beta; NRG2-beta [Mu	<u>36</u>	0.065 0.38
gi 9055270 ref NP 061027.1 low density lipoprotein-related	33	
gi 17298318 gb AAL38110.1 candidate tumor suppressor prote gi 7459690 pir T09059 notch4 - mouse >gi 2564947 gb AAB820	<u>33</u> <u>33</u>	0.51
gi 6754874 ref NP 035059.1 Notch gene homolog 4; Notch gen	_33	0.51
gi 1401160 gb AAC52630.1 Notch4	_33	0.51
gi 27704488 ref XP_215341.1 similar to Notch gene homolog	_33	0.51 L
gi 27707180 ref XP_231213.1 similar to low density lipopro	32	1.2 L
gi 26330916 dbj BAC29188.1 unnamed protein product [Mus mu	32	
gi 2583092 gb AAC53572.1 mucin glycoprotein MUC3 [Mus musc	32	
gi 16519539 ref NP 443737.1 low density lipoprotein-relate	32	
gi 15929752 gb AAH15298.1 Muc3 protein [Mus musculus]	32	
gi 7434825 pir T13810 DNA-directed DNA polymerase (EC 2.7	31	
gi 7447799 pir T13808 DNA-directed DNA polymerase (EC 2.7	31	
gi 19527699 gb AAL89964.1 AT02241p [Drosophila melanogaster]	31	
gi 17136648 ref NP 476821.1 tamas CG8987-PA [Drosophila me	$\frac{31}{30}$	1.7 - 3.0
gi 12231943 gb AAG49316.1 AF315554 1 notch-like transmembra gi 12231945 gb AAG49317.1 AF315555 1 notch-like transmembra	30	3.0
gi 27692559 ref XP_223174.1 similar to ATP-binding cassett	30	4.0 L
gi 17509113 ref NP 491270.1 EGF-like protein [Caenorhabdit	29	7.2 L
gi 7508146 pir T29764 hypothetical protein T21E3.3 - Caeno	29	7.2
gi 4321121 gb AAB17010.2 Notch-3 homolog [Carassius auratus]	29	9.6 13
gi 25148980 ref NP_741938.1 EATing: abnormal pharyngeal pu	28	13

gi 17551376 ref NP 510564.1 EATing: abnormal pharyngeal pu gi 29846961 ref NP 821149.2 polyprotein [Cucumber yellows gi 231890 sp P30611 CP5N CANTR Cytochrome P450 52B1 CYPLII gi 30172761 sp Q9ZZ40 CYB TRIRU Cytochrome b > gi 7430517 pi gi 29292543 dbj BAC66370.1 methyltransferase and helicase gi 29846963 ref NP 829886.1 replicase Cucumber Yellows Vi	28 28 28 28 28 28	13 17 17 17 17	
gi 27714165 ref XP 232818.1 similar to hypothetical protei gi 1708864 sp P98157 LRP1 CHICK Low-density lipoprotein rec gi 2144165 pir JC5077 aspartic proteinase (EC 3.4.23)	$\frac{27}{27}$	23 23 31	
gi 17553160 ref NP 497917.1 Approximately 25 cadherin-repe gi 21302216 gb EAA14361.1 ENSANGP00000002886 [Anopheles ga gi 15240929 ref NP 195745.1 glycosyltransferase-related [A gi 18535661 gb AAL71862.1 delta protein [Strongylocentrotu gi 10092259 gb AAG12672.1 AC027033 7 hypothetical protein;	$ \begin{array}{r} 27 \\ \hline 27 \\ $	31 31 31 31 31	
gi 17557081 ref NP 498670.1 EGF-like domain EB module [Cae gi 7522619 pir T30201 Notch homolog protein - sea squirt (gi 7511304 pir T34513 hypothetical protein ZK783.1 - Caeno gi 10720206 sp 032488 PHOU ENTCL Phosphate transport system gi 30174007 gb EAA00393.2 ENSANGP000000011153 [Anopheles ga gi 16762476 ref NP 458093.1 phosphate transport system reg	27 27 27 27 27 27 27	31 31 31 42 42	
gi 3449296 dbj BAA32463.1 MEGF1 [Homo sapiens]	27	42	
gi 12621132 ref NP_075243.1 MEGF1 [Rattus norvegicus] >gi	27	42	
gi 22095683 sp Q9NYQ8 FAT2_HUMAN Protocadherin Fat 2 precur	27	42	
gi 13787217 ref NP 001438.1 FAT tumor suppressor 2 precurs gi 21295638 gb EAA07783.1 ENSANGP00000016814 [Anopheles ga	27 27	42 42	
gi 20539391 ref XP 166518.1 similar to Neurogenic locus no gi 12231947 gb AAG49318.1 AF315556 1 notch-like transmembra gi 14042419 dbj BAB55237.1 unnamed protein product [Homo s	26 26 26	56 56 56	
gi 27692463 ref XP 213998.1 similar to ATP-binding cassett gi 13477084 dbj BAB02997.1 emb CAB71883.1~gene_id:K17E7.14 gi 15230299 ref NP 190645.1 glycosyltransferase family 8 [26 26 26	76 76 76	

Alignments

```
Get selected sequences | Select all | Deselect all |
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```
| >gi | 7669518 | ref | NP 039253.1 | neuregulin 1 isoform SMDF; heregulin, alpha (45kD, p185-activator); glial growth factor; neu differentiation factor; sensory and motor neuron derived factor [Homo sapiens]
| gi | 9297048 | sp | Q15491 | SMDF HUMAN | Neuregulin-1, sensory and motor neuron-derived fact | gi | 1082779 | pir | | A56943 | sensory/motor neuron-derived factor - human | gi | 862423 | gb | AAC41764.1 | sensory and motor neuron-derived factor | gi | 22004075 | tpg | DAA00044.1 | TPA: neuregulin 1 isoform SMDF [Homo sapiens]
| Length = 296
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Score = 72.7 bits (164), Expect = 5e-13 Identities = 20/20 (100%), Positives = 20/20 (100%)

Query: 1 KCPNEFTGDRCQNYVMASFY 20 KCPNEFTGDRCQNYVMASFY Sbjct: 266 KCPNEFTGDRCQNYVMASFY 285

| >gi | 11066084 | gb | AAG28450.1 | AF194996 1 | glial growth factor GGF beta 3. [Rattus not Length = 323

Score = 72.7 bits (164), Expect = 5e-13

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          KCPNEFTGDRCQNYVMASFY 20
Query: 1
          KCPNEFTGDRCQNYVMASFY
Sbjct: 293 KCPNEFTGDRCQNYVMASFY 312
neuregulin 1 [Homo sapiens]
gi | 30583617 | gb | AAP36053.1 |
                             neuregulin 1 [Homo sapiens]
         Length = 296
 Score = 72.7 bits (164), Expect = 5e-13
Identities = 20/20 (100%), Positives = 20/20 (100%)
          KCPNEFTGDRCQNYVMASFY 20
Query: 1
          KCPNEFTGDRCONYVMASFY
Sbjct: 266 KCPNEFTGDRCQNYVMASFY 285
                                   neuregulin 1 isoform GGF2; heregulin, alpha (45kD,
____>qi|7669524|ref|NP 039256.1|
          p185-activator); glial growth factor; neu
          differentiation factor; sensory and motor neuron derived
          factor [Homo sapiens]
                       glial growth factor - human
gi|422837|pir||S32357
 gi | 292048 | gb | AAB59622.1 |
                             recombinant glial growth factor 2
gi |445841 | prf | | 1910316A
                          glial growth factor
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 Identities = 20/20 (100%), Positives = 20/20 (100%)
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Query: 1
          KCPNEFTGDRCQNYVMASFY
Sbjct: 392 KCPNEFTGDRCQNYVMASFY 411
                                   TPA: neuregulin 1 isoform GGF2 [Homo sapiens]
____]>gi|22004078|tpg|DAA00047.1|
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          KCPNEFTGDRCQNYVMASFY
Sbjct: 392 KCPNEFTGDRCQNYVMASFY 411
                                 unnamed protein product [Mus musculus]
____|>gi|26339516|dbj|BAC33429.1|
         Length = 296
 Score = 72.7 bits (164), Expect = 5e-13
 Identities = 20/20 (100%), Positives = 20/20 (100%)
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Query: 1
          KCPNEFTGDRCQNYVMASFY
Sbjct: 266 KCPNEFTGDRCQNYVMASFY 285
>gi | 11066086 | gb | AAG28451.1 | AF194997 1 glial growth factor GGF beta 4 [Rattus nor
         Length = 342
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          KCPNEFTGDRCQNYVMASFY 20
Query: 1
          KCPNEFTGDRCQNYVMASFY
Sbjct: 293 KCPNEFTGDRCQNYVMASFY 312
```

```
neuregulin 1 isoform HRG-beta2; heregulin, alpha (4
_____>gi | 7669514 | ref | NP 039251.1 |
           p185-activator); glial growth factor; neu
           differentiation factor; sensory and motor neuron derived
           factor [Homo sapiens]
                               heregulin-beta2
gi | 183997 | gb | AAA58640.1 |
          Length = 637
Score = 72.7 bits (164), Expect = 5e-13
 Identities = 20/20 (100%), Positives = 20/20 (100%)
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Query: 1
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Sbjct: 211 KCPNEFTGDRCQNYVMASFY 230
                                 neu differentiation factor
gi | 408407 | gb | AAA19953.1 |
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Query: 1
           KCPNEFTGDRCQNYVMASFY
Sbjct: 118 KCPNEFTGDRCQNYVMASFY 137
                                 neuregulin 1-beta 1; NRG1-beta1 [Mus musculus]
| >qi | 29373075 | gb | AAO72524.1 |
          Length = 76
 Score = 72.7 bits (164), Expect = 5e-13
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Query: 1 KCPNEFTGDRCQNYVMASFY 20
          KCPNEFTGDRCQNYVMASFY
Sbjct: 44 KCPNEFTGDRCQNYVMASFY 63
                                            SMDF neuregulin beta 3 [Rattus norvegicus]
j >qi | 11066048 | gb | AAG28432.1 | AF194443 | 1
          Length = 256
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Query: 1
           KCPNEFTGDRCQNYVMASFY
Sbjct: 226 KCPNEFTGDRCQNYVMASFY 245
                            heregulin, splice form beta 1 - human
_____>gi | 482989 | pir | | B43273
          Length = 645
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Query: 1
           KCPNEFTGDRCQNYVMASFY
Sbjct: 211 KCPNEFTGDRCQNYVMASFY 230
                             neu differentiation factor - rat (fragment)
 _____>gi|2143869|pir||A56210
                               neu differentiation factor
 gi | 408381 | gb | AAA19940.1 |
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Query: 1
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KCPNEFTGDRCQNYVMASFY
Sbjct: 200 KCPNEFTGDRCQNYVMASFY 219
__] >gi|11066038|gb|AAG28427.1|AF194438 1 SMDF neuregulin beta la [Rattus norvegicus
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 Identities = 20/20 (100%), Positives = 20/20 (100%)
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Query: 1
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Sbjct: 267 KCPNEFTGDRCQNYVMASFY 286
j>gi|11066050|gb|AAG28433.1|AF194993 1 glial growth factor beta la [Rattus norvec
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Sbjct: 349 KCPNEFTGDRCQNYVMASFY 368
>gi|2406644|gb|AAC51756.1| gamma-heregulin [Homo sapiens]
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Sbjct: 738 KCPNEFTGDRCQNYVMASFY 757
| >gi|11066082|gb|AAG28449.1|AF194995 1 glial growth factor GGF beta 2 [Rattus nor
          Length = 317
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           KCPNEFTGDRCQNYVMASFY
Sbjct: 293 KCPNEFTGDRCQNYVMASFY 312
\square>gi|4929183|gb|AAD33893.1|AF142632|1|1 cysteine-rich domain neuregulin-1 [Xenopus la
          Length = 688
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Query: 1
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Sbjct: 243 KCPNEFTGDRCQNYVMASFY 262
                                    neuregulin 1 [Bos taurus]
 jgi|27806513|ref|NP_776553.1
 gi|7459664|pir||S32359 glial growth factor - bovine
                              glial growth factor
 gi | 289414 | gb | AAA30540.1 |
                           glial growth factor
 gi 445843 prf | 1910316C
          Length = 241
 Score = 72.7 bits (164), Expect = 5e-13
 Identities = 20/20 (100%), Positives = 20/20 (100%)
```

```
KCPNEFTGDRCQNYVMASFY 20
Query: 1
           KCPNEFTGDRCQNYVMASFY
Sbjct: 211 KCPNEFTGDRCQNYVMASFY 230
                                     Pro-neuregulin-1 precursor (Pro-NRG1) [Contains: N\epsilon
___| >gi | 9297000 | sp | P43322 | NRG1 RAT
           differentiation factor) (Heregulin) (HRG) (Acetylcholine
           receptor inducing activity) (ARIA) (Sensory and motor
           neuron-derived factor) (Glial growth factor)]
                          neu differentiation factor - rat
 gi|7459673|pir||I61722
                               neu differentiation factor
 gi | 408395 | gb | AAA19947.1 |
          Length = 662
 Score = 72.7 bits (164), Expect = 5e-13
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           KCPNEFTGDRCQNYVMASFY
Sbjct: 211 KCPNEFTGDRCQNYVMASFY 230
                                    neuregulin 1 isoform HRG-beta3; heregulin, alpha (4
____>gi|7669516|ref|NP_039252.1|
           p185-activator); glial growth factor; neu
           differentiation factor; sensory and motor neuron derived
           factor [Homo sapiens]
 gi | 183999 | gb | AAA58641.1 |
                               heregulin-beta3
          Length = 241
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Query: 1
           KCPNEFTGDRCQNYVMASFY 20
            KCPNEFTGDRCQNYVMASFY
Sbjct: 211 KCPNEFTGDRCQNYVMASFY 230
                             heregulin precursor, splice form beta-2 - human
 ____|>gi|483138|pir||C43273
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 Score = 72.7 bits (164), Expect = 5e-13
 Identities = 20/20 (100%), Positives = 20/20 (100%)
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Query: 1
            KCPNEFTGDRCQNYVMASFY
Sbict: 211 KCPNEFTGDRCQNYVMASFY 230
                                  neu differentiation factor
 _____ >gi | 408391 | gb | AAA19945.1 |
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            KCPNEFTGDRCQNYVMASFY
Sbjct: 211 KCPNEFTGDRCQNYVMASFY 230
                                     TPA: neuregulin 1 isoform HRG-betal [Homo sapiens]
 _____>gi | 22004072 | tpg | DAA00041.1 |
           Length = 645
 Score = 72.7 bits (164), Expect = 5e-13
 Identities = 20/20 (100%), Positives = 20/20 (100%)
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Query: 1
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Sbjct: 211 KCPNEFTGDRCQNYVMASFY 230
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_____ >gi | 349729 | gb | AAA72403.1 |
                               heregulin beta-1
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          KCPNEFTGDRCQNYVMASFY
Sbjct: 35 KCPNEFTGDRCQNYVMASFY 54
                                    neuregulin 1 isoform GGF; heregulin, alpha (45kD, I
____| >gi | 7669522 | ref | NP 039255.1 |
           p185-activator); glial growth factor; neu
           differentiation factor; sensory and motor neuron derived
           factor [Homo sapiens]
                         heregulin precursor, splice form beta-3 - human
 gi|483200|pir||D43273
 gi|292050|gb|AAB59358.1|
                               recombinant glial growth factor
                                  TPA: neuregulin 1 isoform HRG-beta3 [Homo sapiens]
 gi | 22004074 | tpg | DAA00043.1 |
                                  TPA: neuregulin 1 isoform GGF [Homo sapiens]
 gi|22004077|tpg|DAA00046.1|
 gi 445842 prf | 1910316B
                            glial growth factor
          Length = 241
 Score = 72.7 bits (164), Expect = 5e-13
 Identities = 20/20 (100%), Positives = 20/20 (100%)
           KCPNEFTGDRCQNYVMASFY 20
Query: 1
           KCPNEFTGDRCQNYVMASFY
Sbjct: 211 KCPNEFTGDRCQNYVMASFY 230
                                 Homo sapiens neuregulin 1 [synthetic construct]
____>gi | 30584177 | gb | AAP36337.1 |
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 Identities = 20/20 (100%), Positives = 20/20 (100%)
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Query: 1
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Sbjct: 266 KCPNEFTGDRCQNYVMASFY 285
                                  neu differentiation factor
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Sbjct: 93 KCPNEFTGDRCQNYVMASFY 112
                                              SMDF neuregulin beta 2 [Rattus norvegicus]
j >gi | 11066044 | gb | AAG28430.1 | AF194441 | 1
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Query: 1
           KCPNEFTGDRCQNYVMASFY
Sbjct: 87 KCPNEFTGDRCQNYVMASFY 106
>gi|7459696|pir||I38408 neu differentiation factor - human (fragment)
                               neu differentiation factor
 gi | 408411 | gb | AAA19955.1 |
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Length = 175
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Score = 72.7 bits (164), Expect = 5e-13Identities = 20/20 (100%), Positives = 20/20 (100%)

Query: 1 KCPNEFTGDRCQNYVMASFY 20 KCPNEFTGDRCQNYVMASFY

Sbjct: 145 KCPNEFTGDRCQNYVMASFY 164

|gi| | 13928798 | ref | NP | 113776.1 | neuregulin 1 [Rattus norvegicus] | gi | 7459671 | pir | | 161718 | neu differentiation factor - rat | gi | 408387 | gb | AAA19943.1 | neu differentiation factor | Length = 636

Score = 72.7 bits (164), Expect = 5e-13 Identities = 20/20 (100%), Positives = 20/20 (100%)

Query: 1 KCPNEFTGDRCQNYVMASFY 20 KCPNEFTGDRCQNYVMASFY Sbjct: 211 KCPNEFTGDRCQNYVMASFY 230

| >gi | 28483768 | ref | XP | 134101.2 | RIKEN cDNA D230005F13 gene [Mus musculus]
| Length = 296

Score = 72.7 bits (164), Expect = 5e-13 Identities = 20/20 (100%), Positives = 20/20 (100%)

Query: 1 KCPNEFTGDRCQNYVMASFY 20 KCPNEFTGDRCQNYVMASFY 285

pl85-activator); glial growth factor; neu differentiation factor; sensory and motor neuron derived factor [Homo sapiens]

 $\frac{gi|183995|gb|AAA58639.1|}{Length = 645}$ heregulin-beta1

Score = 72.7 bits (164), Expect = 5e-13 Identities = 20/20 (100%), Positives = 20/20 (100%)

Query: 1 KCPNEFTGDRCQNYVMASFY 20 KCPNEFTGDRCQNYVMASFY Sbjct: 211 KCPNEFTGDRCQNYVMASFY 230

>gi | 408393 | gb | AAA19946.1 | neu differentiation factor Length = 636

Score = 72.7 bits (164), Expect = 5e-13Identities = 20/20 (100%), Positives = 20/20 (100%)

Query: 1 KCPNEFTGDRCQNYVMASFY 20 KCPNEFTGDRCQNYVMASFY Sbjct: 211 KCPNEFTGDRCQNYVMASFY 230

Score = 72.7 bits (164), Expect = 5e-13 Identities = 20/20 (100%), Positives = 20/20 (100%)

Query: 1 KCPNEFTGDRCQNYVMASFY 20

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KCPNEFTGDRCQNYVMASFY
Sbjct: 87 KCPNEFTGDRCQNYVMASFY 106
 ____|>gi|22004073|tpg|DAA00042.1|
                                     TPA: neuregulin 1 isoform HRG-beta2 [Homo sapiens]
           Length = 637
 Score = 72.7 bits (164), Expect = 5e-13
 Identities = 20/20 (100%), Positives = 20/20 (100%)
Query: 1
           KCPNEFTGDRCQNYVMASFY 20
            KCPNEFTGDRCONYVMASFY
Sbjct: 211 KCPNEFTGDRCQNYVMASFY 230
 >gi|2961137|gb|AAC05671.1| neuregulin beta-2a [Gallus gallus]
          Length = 677
 Score = 69.8 \text{ bits (157)}, Expect = 4e-12
 Identities = 19/19 (100%), Positives = 19/19 (100%)
Query: 2
           CPNEFTGDRCQNYVMASFY 20
           CPNEFTGDRCQNYVMASFY
Sbjct: 254 CPNEFTGDRCQNYVMASFY 272
☐>gi|9297019|sp|Q05199|NRG1 CHICK Pro-neuregulin-1 precursor (Pro-NRG1) [Contains:
            (Acetylcholine receptor inducing activity) (ARIA)]
 gi | 1079381 | pir | | A45769 acetylcholine receptor synthesis stimulator ARIA-1 precursor
           chicken
 gi | 212604 | gb | AAA49037.1 |
                             aria
          Length = 602
 Score = 69.8 \text{ bits } (157), \text{ Expect = } 4e-12
 Identities = 19/19 (100%), Positives = 19/19 (100%)
           CPNEFTGDRCQNYVMASFY 20
Query: 2
           CPNEFTGDRCQNYVMASFY
Sbjct: 171 CPNEFTGDRCQNYVMASFY 189
>gi|2961139|gb|AAC05672.1| neuregulin beta-2b [Gallus gallus]
          Length = 480
 Score = 69.8 \text{ bits } (157), Expect = 4e-12
 Identities = 19/19 (100%), Positives = 19/19 (100%)
Query: 2
           CPNEFTGDRCQNYVMASFY 20
           CPNEFTGDRCQNYVMASFY
Sbjct: 254 CPNEFTGDRCQNYVMASFY 272
>gi|2961135|gb|AAC05670.1| neuregulin beta-la [Gallus gallus]
          Length = 685
 Score = 69.8 \text{ bits } (157), \text{ Expect = } 4e-12
 Identities = 19/19 (100%), Positives = 19/19 (100%)
           CPNEFTGDRCQNYVMASFY 20
           CPNEFTGDRCQNYVMASFY
Sbjct: 254 CPNEFTGDRCQNYVMASFY 272
>gi 2589172 |gb AAB83956.1 mucin Muc3 [Rattus norvegicus]
          Length = 379
Score = 36.7 bits (79), Expect = 0.036
 Identities = 10/12 (83%), Positives = 11/12 (91%)
```

```
Query: 2 CPNEFTGDRCQN 13
           CPN F+GDRCQN
Sbjct: 13 CPNGFSGDRCQN 24
___| >gi | 111979 | pir | | A39321
                              mucin - rat (fragment)
 gi | 205546 | gb | AAA41642.1 |
                                 mucin
           Length = 447
 Score = 36.7 \text{ bits } (79), \text{ Expect = } 0.036
 Identities = 10/12 (83%), Positives = 11/12 (91%)
Query: 2
            CPNEFTGDRCQN 13
            CPN F+GDRCQN
Sbjct: 369 CPNGFSGDRCQN 380
sgi|9789757|sp|P56974|NRG2_MOUSE Pro-neuregulin-2 precursor (Pro-NRG2) [Contains:
            (NRG-2) (Divergent of neuregulin 1) (DON-1)]
           Length = 756
 Score = 35.8 \text{ bits } (77), \text{ Expect = } 0.065
 Identities = 11/19 (57%), Positives = 14/19 (73%)
            KCPNEFTGDRCQNYVMASF 19
            KCP +TGDRCQ + M +F
Sbjct: 279 KCPVGYTGDRCQQFAMVNF 297
____| >gi | 7669532 | ref | NP 053586.1 |
                                      neuregulin 2 isoform 4; neural- and thymus-derived
            ErbB kinases [Homo sapiens]
 gi | 6840976 | gb | AAF28851.1 |
                                 neuregulin 2 isoform 4 [Homo sapiens]
           Length = 852
 Score = 35.8 \text{ bits } (77), \text{ Expect = } 0.065
 Identities = 11/19 (57%), Positives = 14/19 (73%)
Query: 1
            KCPNEFTGDRCQNYVMASF 19
            KCP +TGDRCQ + M +F
Sbjct: 371 KCPVGYTGDRCQQFAMVNF 389
___| >gi | 7669528 | ref | NP_053584.1 |
                                      neuregulin 2 isoform 2; neural- and thymus-derived
            ErbB kinases [Homo sapiens]
 gi | 6840974 | gb | AAF28849.1 |
                                 neuregulin 2 isoform 2 [Homo sapiens]
          Length = 844
 Score = 35.8 \text{ bits } (77), \text{ Expect} = 0.065
 Identities = 11/19 (57%), Positives = 14/19 (73%)
           KCPNEFTGDRCQNYVMASF 19
Query: 1
            KCP +TGDRCQ + M +F
Sbjct: 371 KCPVGYTGDRCQQFAMVNF 389
sgi|7459670|pir||PC4415 ErbB kinase activator beta, brain and thymus - rat (fragm
gi | 2605634 | dbj | BAA23346.1 | NTAK beta [Rattus sp.]
          Length = 57
Score = 35.8 \text{ bits } (77), \text{ Expect} = 0.065
 Identities = 11/19 (57%), Positives = 14/19 (73%)
Query: 1 KCPNEFTGDRCQNYVMASF 19
          KCP +TGDRCO + M +F
Sbjct: 15 KCPVGYTGDRCQQFAMVNF 33
_____ >gi | 29373063 | gb | AAO72523.1 |
                                   neurequlin 2-beta; NRG2-beta [Mus musculus]
```

```
Length = 54
```

Score = 35.8 bits (77), Expect = 0.065 Identities = 11/19 (57%), Positives = 14/19 (73%)

Query: 1 KCPNEFTGDRCQNYVMASF 19 KCP +TGDRCQ + M +F Sbjct: 28 KCPVGYTGDRCQQFAMVNF 46

| >gi|9055270|ref|NP 061027.1| low density lipoprotein-related protein 1B (deleted density lipoprotein receptor related protein-deleted in tumor [Homo sapiens]

gi|7861733|gb|AAF70379.1|AF176832_1 low density lipoprotein receptor related prot [Homo sapiens]
Length = 4599

Score = 33.3 bits (71), Expect = 0.38 Identities = 10/14 (71%), Positives = 11/14 (78%)

Query: 2 CPNEFTGDRCQNYV 15 C E+TGDRCQ YV Sbjct: 4311 CQPEYTGDRCQYYV 4324

| >gi | 17298318 | gb | AAL38110.1 | candidate tumor suppressor protein [Homo sapiens]
| Length = 172

Score = 33.3 bits (71), Expect = 0.38 Identities = 10/14 (71%), Positives = 11/14 (78%)

Query: 2 CPNEFTGDRCQNYV 15 C E+TGDRCQ YV Sbjct: 42 CQPEYTGDRCQYYV 55

| >gi | 7459690 | pir | | T09059 | notch4 - mouse | gi | 2564947 | gb | AAB82004.1 | notch4 [Mus musculus] | Length = 1964

Score = 32.9 bits (70), Expect = 0.51Identities = 9/11 (81%), Positives = 10/11 (90%)

Query: 2 CPNEFTGDRCQ 12 CP+ FTGDRCQ Sbjct: 102 CPSGFTGDRCQ 112

Score = 19.3 bits (38), Expect = 6216
Identities = 5/7 (71%), Positives = 6/7 (85%)

Query: 6 FTGDRCQ 12 FTG RC+ Sbjct: 540 FTGARCE 546

Get selected sequences

Select all

Deselect all

Database: All non-redundant GenBank CDS translations+PDB+SwissProt+PIR+PRF Posted date: May 29, 2003 2:04 AM Number of letters in database: 462,300,935 Number of sequences in database: 1,438,044

Lambda K H

0.343 0.280 1.98

Gapped

Lambda K H

0.294 0.110 0.610

Matrix: PAM30

Gap Penalties: Existence: 9, Extension: 1

Number of Hits to DB: 24,918,002 Number of Sequences: 1438044 Number of extensions: 488106

Number of successful extensions: 7877

Number of sequences better than 20000.0: 100

Number of HSP's better than 20000.0 without gapping: 7521

Number of HSP's successfully gapped in prelim test: 0

Number of HSP's that attempted gapping in prelim test: 0

Number of HSP's gapped (non-prelim): 7871

length of query: 20

length of database: 462,300,935

effective HSP length: 11 effective length of query: 9

effective length of database: 446,482,451

effective search space: 4018342059

effective search space used: 4018342059

T: 11 A: 40

X1: 15 (7.4 bits)

X2: 35 (14.8 bits)

X3: 58 (24.6 bits)

S1: 35 (19.1 bits)

S2: 35 (18.0 bits)







PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIN	Books	
Search Pro	tein 🔻	for					Go	Clear	
		Limits	Preview/Ind	ex His	History Clipboard		d	Details	
Display	default .	Show:	20 🔻 :	Send to F	ile	▼ Get Subs		luence	

BLink, Links

1: NP 039253. neuregulin 1 isof...[gi:7669518] LOCUS NRG1 296 aa linear PRI 06-APR-2003 DEFINITION neuregulin 1 isoform SMDF; heregulin, alpha (45kD, ERBB2 p185-activator); glial growth factor; neu differentiation factor; sensory and motor neuron derived factor [Homo sapiens]. ACCESSION NP 039253 NP 039253.1 GI:7669518 VERSION DBSOURCE REFSEQ: accession NM 013959.1 KEYWORDS Homo sapiens (human) SOURCE ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE (residues 1 to 296) AUTHORS Chaudhury, A.R., Gerecke, K.M., Wyss, J.M., Morgan, D.G., Gordon, M.N. and Carroll, S.L. TITLE Neuregulin-1 and erbB4 immunoreactivity is associated with neuritic plaques in Alzheimer disease brain and in a transgenic model of Alzheimer disease **JOURNAL** J. Neuropathol. Exp. Neurol. 62 (1), 42-54 (2003) MEDLINE 22416151 12528817 PUBMED REMARK GeneRIF: Synaptic loss, gliosis, inflammation, and neuronal death occurring in Alzheimer disease is associated with altered expression of NRG-1 and its receptors (the erbB membrane tyrosine kinases). REFERENCE (residues 1 to 296) AUTHORS Miralem, T. and Avraham, H.K. TITLE Extracellular matrix enhances heregulin-dependent BRCA1 phosphorylation and suppresses BRCA1 expression through its C terminus

JOURNAL Mol. Cell. Biol. 23 (2), 579-593 (2003)

MEDLINE 22397817 PUBMED 12509456

REMARK GeneRIF: heregulin downregulates BRCA1 in the extracellular matrix

of breast cancer cells

REFERENCE (residues 1 to 296)

Stefansson, H., Sarginson, J., Kong, A., Yates, P., **AUTHORS**

Steinthorsdottir, V., Gudfinnsson, E., Gunnarsdottir, S., Walker, N., Petursson, H., Crombie, C., Ingason, A., Gulcher, J.R., Stefansson, K.

and St Clair, D.

TITLE Association of neuregulin 1 with schizophrenia confirmed in a

Scottish population

JOURNAL Am. J. Hum. Genet. 72 (1), 83-87 (2003)

MEDLINE 22375654

PUBMED 12478479

REMARK GeneRIF: Association of neurequlin 1 with schizophrenia confirmed

in a Scottish population

REFERENCE (residues 1 to 296)

AUTHORS Stefansson, H., Sigurdsson, E., Steinthorsdottir, V., Bjornsdottir, S.,

Sigmundsson, T., Ghosh, S., Brynjolfsson, J., Gunnarsdottir, S.,

Ivarsson, O., Chou, T.T., Hjaltason, O., Birgisdottir, B., Jonsson, H.,

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Gudnadottir, V.G., Gudmundsdottir, E., Bjornsson, A., Ingvarsson, B.,
            Ingason, A., Sigfusson, S., Hardardottir, H., Harvey, R.P., Lai, D.,
            Zhou, M., Brunner, D., Mutel, V., Gonzalo, A., Lemke, G., Sainz, J.,
            Johannesson, G., Andresson, T., Gudbjartsson, D., Manolescu, A.,
            Frigge, M.L., Gurney, M.E., Kong, A., Gulcher, J.R., Petursson, H. and
            Stefansson, K.
            Neuregulin 1 and susceptibility to schizophrenia
  TITLE
            Am. J. Hum. Genet. 71 (4), 877-892 (2002)
  JOURNAL
  MEDLINE
            22233215
            12145742
  PUBMED
            GeneRIF: the behavioral phenotypes of the NRG1 hypomorphs are
  REMARK
            partially reversible with clozapine, an atypical antipsychotic drug
            used to treat schizophrenia.
               (residues 1 to 296)
REFERENCE
            Liu, J. and Kern, J.A.
  AUTHORS
            Neuregulin-1 activates the JAK-STAT pathway and regulates lung
  TITLE
            epithelial cell proliferation
            Am. J. Respir. Cell Mol. Biol. 27 (3), 306-313 (2002)
  JOURNAL
  MEDLINE
            22193434
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  PUBMED
            GeneRIF: NRG-1 activates the JAK-STAT signal transduction pathway
  REMARK
            through its high-affinity receptor, the HER2/HER3 heterodimer. This
            pathway plays an important role in NRG-1-stimulated proliferation
            of pulmonary epithelial cells.
               (residues 1 to 296)
REFERENCE
            6
            Talukder, A.H., Wang, R.A. and Kumar, R.
  AUTHORS
            Expression and transactivating functions of the bZIP transcription
  TITLE
            factor GADD153 in mammary epithelial cells
            Oncogene 21 (27), 4289-4300 (2002)
  JOURNAL
  MEDLINE
            22077736
   PUBMED
            12082616
            GeneRIF: HRG stimulation of mammary epithelial cells induces the
  REMARK
            expression of GADD153 mRNA and protein and transcription of GADD153
            promoter.
               (residues 1 to 296)
REFERENCE
            Cabedo, H., Luna, C., Fernandez, A.M., Gallar, J. and Ferrer-Montiel, A.
  AUTHORS
            Molecular determinants of the sensory and motor neuron-derived
 TITLE
            factor insertion into plasma membrane
  JOURNAL
            J. Biol. Chem. 277 (22), 19905-19912 (2002)
  MEDLINE
            22028052
   PUBMED
            11896060
            GeneRIF: Molecular determinants of the sensory and motor
  REMARK
            neuron-derived factor insertion into plasma membrane
                (residues 1 to 296)
REFERENCE
            Landgraf, R., Fischer, D. and Eisenberg, D.
  AUTHORS
            Analysis of heregulin symmetry by weighted evolutionary tracing
  TITLE
            Protein Eng. 12 (11), 943-951 (1999)
  JOURNAL
            20054766
  MEDLINE
            10585499
   PUBMED
                (residues 1 to 296)
REFERENCE
            Meyer, D., Yamaai, T., Garratt, A., Riethmacher-Sonnenberg, E.,
  AUTHORS
            Kane, D., Theill, L.E. and Birchmeier, C.
            Isoform-specific expression and function of neuregulin
  TITLE
            Development 124 (18), 3575-3586 (1997)
  JOURNAL
  MEDLINE
            98000097
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   PUBMED
            10 (residues 1 to 296)
REFERENCE
            Schaefer, G., Fitzpatrick, V.D. and Sliwkowski, M.X.
  AUTHORS
            Gamma-heregulin: a novel heregulin isoform that is an autocrine
  TITLE
            growth factor for the human breast cancer cell line, MDA-MB-175
  JOURNAL
            Oncogene 15 (12), 1385-1394 (1997)
  MEDLINE
            97472144
   PUBMED
            9333014
REFERENCE
            11 (residues 1 to 296) ·
            Ho, W.H., Armanini, M.P., Nuijens, A., Phillips, H.S. and Osheroff, P.L.
  AUTHORS
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Sensory and motor neuron-derived factor. A novel heregulin variant TITLE highly expressed in sensory and motor neurons JOURNAL J. Biol. Chem. 270 (24), 14523-14532 (1995) MEDLINE 95301541 7782315 PUBMED 12 (residues 1 to 296) REFERENCE AUTHORS Wen, D., Suggs, S.V., Karunagaran, D., Liu, N., Cupples, R.L., Luo, Y., Janssen, A.M., Ben-Baruch, N., Trollinger, D.B., Jacobsen, V.L. et al. TITLE Structural and functional aspects of the multiplicity of Neu differentiation factors Mol. Cell. Biol. 14 (3), 1909-1919 (1994) JOURNAL MEDLINE 94158863 PUBMED 7509448 REFERENCE 13 (residues 1 to 296) AUTHORS Lee, J. and Wood, W.I. TITLE Assignment of heregulin (HGL) to human chromosome 8p22-p11 by PCR analysis of somatic cell hybrid DNA JOURNAL Genomics 16 (3), 790-791 (1993) MEDLINE 93315185 PUBMED 8325659 REFERENCE 14 (residues 1 to 296) AUTHORS Marchionni, M.A., Goodearl, A.D., Chen, M.S., Bermingham-McDonogh, O., Kirk, C., Hendricks, M., Danehy, F., Misumi, D., Sudhalter, J., Kobayashi, K. et al. TITLE Glial growth factors are alternatively spliced erbB2 liqands expressed in the nervous system Nature 362 (6418), 312-318 (1993) JOURNAL MEDLINE 93205115 PUBMED 8096067 REFERENCE 15 (residues 1 to 296) AUTHORS Orr-Urtreger, A., Trakhtenbrot, L., Ben-Levy, R., Wen, D., Rechavi, G., Lonai, P. and Yarden, Y. TITLE Neural expression and chromosomal mapping of Neu differentiation factor to 8p12-p21 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 90 (5), 1867-1871 (1993) MEDLINE 93189598 PUBMED 8095334 REFERENCE 16 (residues 1 to 296) AUTHORS Lupu, R. and Lippman, M.E. TITLE William L. McGuire Memorial Symposium. The role of erbB2 signal transduction pathways in human breast cancer JOURNAL Breast Cancer Res. Treat. 27 (1-2), 83-93 (1993) MEDLINE 94083684 7903175 PUBMED REFERENCE 17 (residues 1 to 296) Holmes, W.E., Sliwkowski, M.X., Akita, R.W., Henzel, W.J., Lee, J., **AUTHORS** Park, J.W., Yansura, D., Abadi, N., Raab, H., Lewis, G.D. et al. TITLE Identification of heregulin, a specific activator of p185erbB2 JOURNAL Science 256 (5060), 1205-1210 (1992)

MEDLINE

92271253 PUBMED 1350381

REVIEWED REFSEQ: This record has been curated by NCBI staff. The COMMENT reference sequence was derived from L41827.1.

> Summary: Neuregulin 1 (NRG1) was originally identified as a 44-kD glycoprotein that interacts with the NEU/ERBB2 receptor tyrosine kinase to increase its phosphorylation on tyrosine residues. It is known that an extraordinary variety of different isoforms are produced from the NRG1 gene by alternative splicing. These isoforms include heregulins (HRGs), glial growth factors (GGFs) and sensory and motor neuron-derived factor (SMDF). They are tissue-specifically expressed and differ significantly in their structure. The HRG isoforms all contain immunoglobulin (Ig) and epidermal growth factor-like (EGF-like) domains. GGF and GGF2 isoforms contain a kringle-like sequence plus Ig and EGF-like

domains; and the SMDF isoform shares only the EGF-like domain with other isoforms. The receptors for all NRG1 isoforms are the ERBB family of tyrosine kinase transmembrane receptors. Through interaction with ERBB receptors, NRG1 isoforms induce the growth and differentialtion of epithelial, neuronal, glial, and other types of cells.

Transcript Variant: This variant (SMDF) is expressed mainly in the nervous system. It contains a C-terminal EGF-like domain and a unique N-terminal sequence which lacks an Ig-like domain and is distinct from all known HRG-variants.

FEATURES Location/Qualifiers

source 1∴.296

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/db_xref="taxon:9606"
/chromosome="8"

/map="8p21-p12"

<u>Protein</u> 1..296

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/note="heregulin, alpha (45kD, ERBB2 p185-activator); glial growth factor; neu differentiation factor; sensory

and motor neuron derived factor"

variation 46

/allele="R" /allele="G"

/db_xref="dbSNP:3735774"

<u>Region</u> 236..285

/region_name="EGF-like domain"

<u>CDS</u> 1..296

/gene="NRG1"

/coded_by="NM_013959.1:501,.1391"

/db_xref="LocusID:3084" /db_xref="MIM:142445"

ORIGIN

//

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121 piisldataa savwvsseay tspvsraqse sevqvtvqgd kavvsfepsa aptpknrifa 181 fsflpstaps fpsptrnpev rtpksatqpq ttetnlqtap klstststtg tshlvkcaek

241 ektfcvngge cfmvkdlsnp srylckcpne ftgdrcqnyv masfyststp flslpe

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